

D A I L Y

DATE: February 4, 1987

F I E L D

TIME: 0700 to 1630

R E P O R TPLACE: Cerro Copper Plant Site
Sauget, Illinois

WEATHER: Partly Cloudy, 30s

PROJECT: JOB 10224A
CERRO COPPER
IEPA RI/FS OVERSIGHTDISTRIBUTION:S. Silverstein, Cerro (2 copies)
JBC/LJO/ED 10224- j 3PERSONNEL ON SITE:

<u>Name</u>	<u>Affiliation</u>	<u>Hrs.</u>
Dave Guyan	Sverdrup	9.5
Dan Sewall	Ecology & Environment (E&E)	9.0
Tim Maley	Ecology & Environment (E&E)	9.0
Jerry Hamman	Fox Drilling	9.0
Robbie Crachity	Fox Drilling	9.0
Henry Colligan	Drillers Union Official	9.0

FIELD WORK SUMMARY:

1. Dave Guyan arrived at Cerro Copper Plant at 0705. Jerry Hamman and Robbie Crachity arrived at 0715 and entered site. Dan Sewall, Tim Maley and Henry Colligan arrived at 0725.
2. Crew moved to next location which was soil boring I-9, monitor well EE-16 and is situated 800' south of main Cerro Plant Road, just east of railroad spur (see Attachment A). This varied from original work plan, due to soft soil conditions. Original location was to be west of railroad spur.
3. Crew members prepared for work by setting up sampling area, preparing decon solutions and setting up drill rig. All crew members wore Level C protective clothing during drilling. Initial sample from 0-1.5' was collected at 0830.
4. Drilling slowed down at 0930 when at depth of 15.0' augers advanced very slowly through a 5.0' layer of unknown composition. Dan Sewall noted the previous split-spoon sample (13.5'-15.0') had contained small black pellets. Sewall then departed site.
5. Drilling was completed to a depth of 33.0' at 1100. Drillers added 5.0' stainless steel screen from 33.0'-28.0' and stainless steel casing from 28.0' to 2' above surface. This well used natural sand pack around the screen. Hamman began adding bentonite pellets down

February 4, 1987

- the hole. Maley departed site to deliver samples to P. Alvey at field office. Alvey used an organic vapor analyzer (OVA) to screen samples.
6. Drillers added dry cement and water to hole when bentonite seal was completed. Crachity shoveled drill cuttings into a 55-gallon drum. A locking well cover was placed over hole followed by a final fill of dry cement. Well was completed at 1245.
 7. Crachity and Colligan departed site to drop off drummed cuttings at the field office. They returned to Cerro Plant and Crachity began steam cleaning equipment at 1320.
 8. Crew moved to new location at 1415. This is numbered soil boring I-10 and is located just north of the Cerro Plant Road and west of railroad spur (see Attachment A). Crew members wore Level C protective clothing.
 9. D. Sewall allowed workers to remove full-face respirators at depth 23.0'. HNU photoionization detector had not detected significant levels to that depth.
 10. Total depth of boring I-10 was 30.0'. Drillers began removing augers from hole at 1545 and then partially grouted hole by means of a tremie pipe. D. Sewall departed site to deliver samples to P. Alvey for screening with the OVA. Colligan and Crachity shoveled cuttings back into the hole.
 11. All personnel departed Cerro Copper Plant at 1630. D. Guyan went to E&E's Metro Field Office to receive Cerro's split samples. P. Alvey had chain-of-custody record prepared and relinquished samples to Cerro field representative (see Attachment B). D. Guyan arrived at Sverdrup Corporation office and stored samples on ice in a locked room overnight. Samples will be delivered to Daily Analytical Laboratories (Peoria, IL) February 5, 1987 via Greyhound package express.
 12. D. Guyan took 33 pictures of the field work.

Attachments

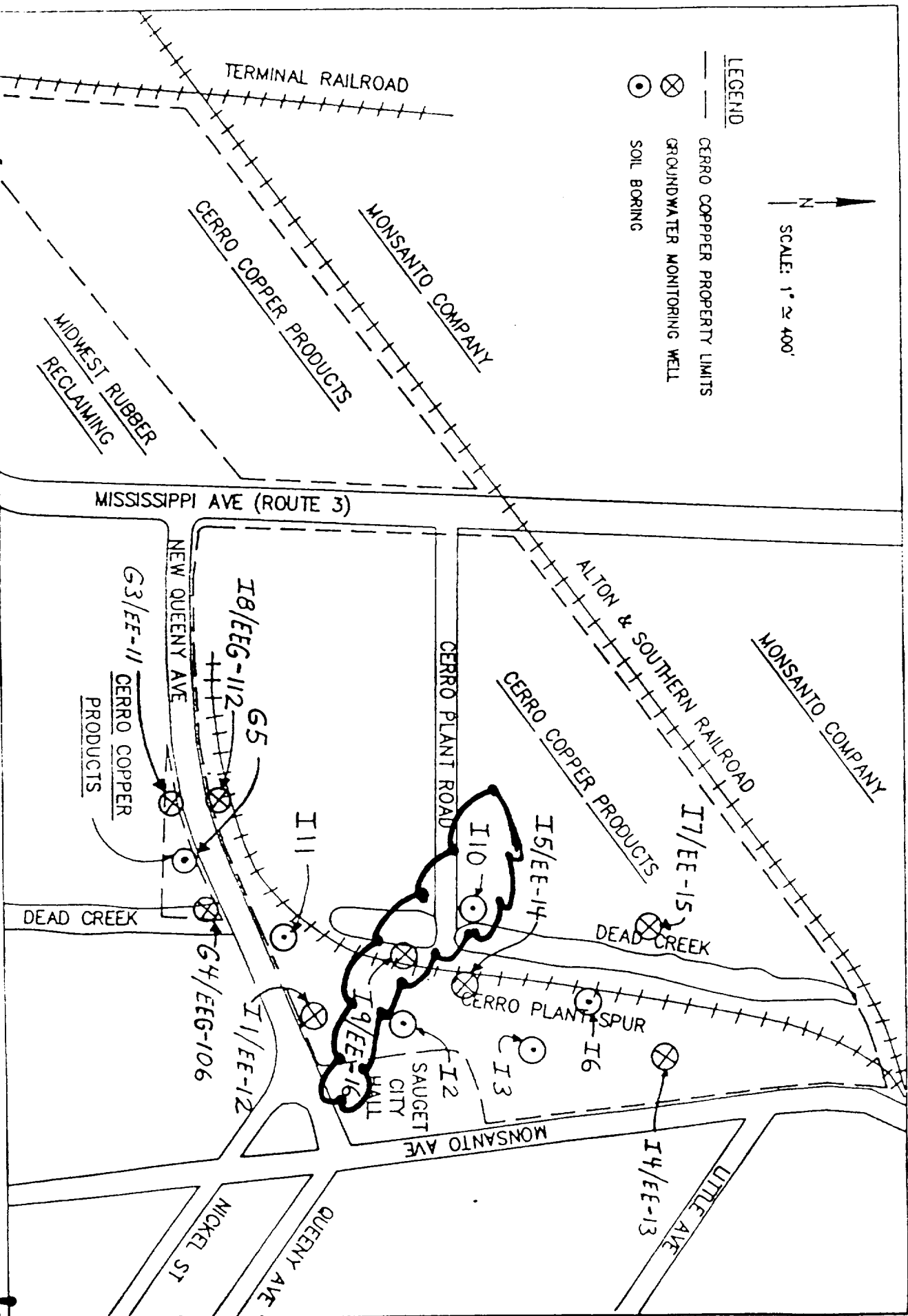

Sverdrup Corporation

N
SCALE: 1" = 400'

- LEGEND**
- CERRO COPPER PROPERTY LIMITS
 - ⊗ GROUNDWATER MONITORING WELL
 - ⊙ SOIL BORING

NOTE: NUMBERING LEGEND =
BORING HOLE ID / WELL ID

SITE MAP AND E & E WORK AREAS



ATTACHMENT A

CHAIN-OF-CUSTODY RECORD / RECEIPT FOR SAMPLES

Page 1 of 1

Project No.: IL3140		Project Name: DEAD CREEK		Project Manager: MIKE MILLER		<div style="border: 1px solid black; padding: 5px; transform: rotate(-45deg); display: inline-block;"> 2-120 ml VIALS 1-802 HCL ORGANICS 1-802 METALS + CN </div>		REMARKS	
Samplers (Signatures): <i>Samuel P. Small</i> <i>Pat O'Leary</i>		Field Team Leader: DAN SEWELL							
STATION NUMBER	DATE	TIME	SAMPLE TYPE			SAMPLE INFORMATION	STATION LOCATION	NUMBER OF CONTAINERS	
			COMP	GRAB	AIR				
EXPECTED COMPOUNDS (Concentration)*									
DC-16-43	2/1/87	13:00	✓			UNKNOWN	BORING I-6 10'-25'	4	2 1 1
DC-18-44	2/3/87	11:00	✓			UNKNOWN	SOIL - BANK	4	2 1 1
DC-27-45	2/3/87	11:30	✓			UNKNOWN	BORING I-7 3 1/2' - 22 1/2'	4	2 1 1
DC-27-46	2/3/87	11:30	✓			UNKNOWN	BORING I-7 13 1/2' - 22 1/2'	4	2 1 1
DC-37-47	2/3/87	11:30	✓			UNKNOWN	BORING I-9 13 1/2' - 22 1/2'	4	2 1 1
DC-39-48	2/4/87	11:30	✓			UNKNOWN	BORING I-9 (6 1/2' - 22 1/2')	4	2 1 1
DC-39-49	2/4/87	11:30	✓			UNKNOWN	BORING I-9 (23' - 30')	4	2 1 1
DC-40-50	2/4/87	14:30	✓			UNKNOWN	BORING I-10 (15' - 30')	4	2 1 1
BOTTLES SUPPLIED: 3202 JARS - 8 802 JARS - 16 402 (200ml) JARS - 16									
Relinquished By: (Signature) <i>Samuel P. Small</i>		Date/Time: 2-4-87/1450		Received By: (Signature) <i>Dan W. Guyan</i>		Date/Time: 2/4/87/1730		Received By: (Signature) <i>Larry J. O'Leary</i>	
Relinquished By: (Signature) <i>Larry J. O'Leary</i>		Date/Time: 2-5-87/0800		Received By: (Signature) —		Date/Time: —		Received By: (Signature) —	
Relinquished By: (Signature) —		Date/Time: —		Received For Laboratory By: (Signature) —		Date/Time: —		Received For Laboratory By: (Signature) —	
Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files * See CONCENTRATION RANGE on back of form.								Ship Via: GREYHOUND PACKAGE EXPRESS BL/Airbill Number: 156 017 202 9 Date: 2/5/87	

GREYHOUND BUSBILL Co.

DESTINATION STATION

Co.

STATE

156 019 202 9

FORWARDING AGENT

Consignee
St. Louis, Mo.

STREET ADDRESS
1621 W. Panhandle

NO. OF PIECES
 ENV. SACK
 BGGE. CTN.

CONTENTS
1 cooler

DO NOT WRITE IN THIS SPACE

ROUTING
 INSERT EACH COMPANY'S ABBREVIATION AND JUNCTION POINT ON LINES BELOW

SHIPPER'S NAME
Landings Corp.

STREET ADDRESS
501 No. 11th St.

ORIGIN CITY & STATE
St. Louis, Mo. 63101

PHONE
692-5252

CHG. ACCT. DELIVERY

DECL. VAL. ACTUAL WT. TARIFF WT.

CONSIGNEE NOTIFIED
 MO DAY YEAR TIME A.M. P.M.

MO DAY YEAR TIME

EXPRESS CHARGES \$ *12.90*

CHARGES ADVANCED \$

PICK UP CHARGES \$

DELIVERY CHARGES \$

VALUE CHARGES \$

SUB TOTAL \$

STATE TAX \$

TOTAL PREPAID \$ *12.90*

(NOT NEGOTIABLE) SUBJECT TO TARIFF REGULATIONS
 LIABILITY: The carrier will not pay over \$50.00 for any shipment of 100 pounds or less, or 50¢ per pound actual weight for any shipment in excess of 100 pounds, unless a greater value is declared and charges for such greater value paid. Maximum value for any one shipment is limited by tariff.

1 SHIPPER'S RECEIPT

PREPAID

NO.

DATE

AMOUNT

FORM OP-17 (5-77) PRINTED IN U.S.A.